

CASE NO.: 1118.002
Serial No.: 09/901,155
November 16, 2004
Page 2

PATENT
Filed: July 10, 2001

1-24 (canceled).

25. (currently amended) A cleaning device, comprising:

an elongated handle;

an elongated hollow jet manifold defining a transverse dimension generally perpendicular to the handle, the jet manifold being engaged with a lower end portion of the handle without intervening structure between the manifold and handle;

plural nozzles spaced along the jet manifold for spraying water directed into the jet manifold onto a surface;

a flat forward wing extending from the jet manifold above and forwardly of the nozzles such that water from the nozzles can spray beyond the forward wing during operation, the forward wing being elongated in the transverse dimension;

a flat rear wing elongated in the transverse dimension and having a front transverse edge engaged with the jet manifold, the rear wing extending rearwardly of the nozzles and terminating in a rear transverse edge, the forward ~~wind~~ wing being slanted with respect to the rear wing, the ~~read~~ rear wing being substantially parallel to the ground when the device is being used to spray the ground, an air flow space being defined between the rear transverse edge and a surface beneath the device when the device is rollably engaged with the surface to clean the surface; and

at least one wheel on the device to rollably engage the surface, wherein

the wings cooperate to establish a Venturi effect when water is sprayed onto the surface through the nozzles, wherein air outside the jet manifold below the wings is entrained

1118.2.AM2

CASE NO.: 1118.002
Serial No.: 09/901,155
November 16, 2004
Page 3

PATENT
Filed: July 10, 2001

into water being sprayed from the nozzles onto the surface, thereby facilitating cleaning the surface with both the water and the air.

26. (previously presented) The device of Claim 25, wherein the forward wing extends down from the horizontal in a longitudinal dimension that is perpendicular to the transverse dimension when the device is oriented to clean a surface beneath the device.

27. (previously presented) The device of Claim 25, wherein the handle is hollow and defines a fluid passageway communicating with the jet manifold, the handle including a water connector connectable to a source of water for directing water through the handle, jet manifold, and nozzles.

28. (previously presented) The device of Claim 27, further comprising a valve on the handle and manipulable to block the fluid passageway.

29. (previously presented) The device of Claim 25, wherein water flow onto the surface is no more than three gallons per minute at a water source pressure of up to eighty pounds per square inch.

30. (previously presented) The device of Claim 27, comprising a filter disposed in the fluid passageway of the handle.

31. (previously presented) The device of Claim 30, wherein said filter is frusto-conical shaped.

1118-2.AM2

CASE NO.: 1118.002
Serial No.: 09/901,155
November 16, 2004
Page 4

PATENT
Filed: July 10, 2001

32. (currently amended) A cleaning device, comprising:
- an elongated handle;
 - an elongated hollow jet manifold generally perpendicular to the handle, the jet manifold being fixedly engaged with a lower end portion of the handle;
 - plural nozzles on the jet manifold for spraying water directed into the jet manifold onto a surface;
 - a flat transversely elongated forward wing extending from the jet manifold forwardly of the nozzles;
 - a transversely elongated unitary rear wing extending from the jet manifold rearwardly of the nozzles and terminating in a rear transverse edge without further structure rearwardly of the rear transverse edge that is closer to the ground during operation than the rear wing, an air flow space being defined between the rear transverse edge and a surface beneath the device when the device is rollably engaged with the surface to clean the surface;
 - at least one wheel engaged with the device to rollably engage the surface, wherein
 - the wings cooperate with each other such that air outside the jet manifold between the wings and a surface being cleaned and air from behind the rear wing is entrained into water being sprayed from the nozzles onto the surface, thereby facilitating cleaning the surface with both the water and the air.
33. (previously presented) The device of Claim 32, wherein the forward wing extends down from the horizontal in a longitudinal dimension when the device is oriented to clean a surface beneath the device.

1118-2.AM2

CASE NO.: 1118.002
Serial No.: 09/901,155
November 16, 2004
Page 5

PATENT
Filed: July 10, 2001

34. (previously presented) The device of Claim 32, wherein the handle is hollow and defines a fluid passageway communicating with the jet manifold, the handle including a water connector connectable to a source of water for directing water through the handle, jet manifold, and nozzles.
35. (previously presented) The device of Claim 34, further comprising a valve on the handle and manipulable to block the fluid passageway.
36. (previously presented) The device of Claim 32, wherein water flow onto the surface is no more than three gallons per minute at a water source pressure of up to eighty pounds per square inch.
37. (previously presented) The device of Claim 34, comprising a filter disposed in the fluid passageway of the handle.
38. (previously presented) The device of Claim 37, wherein said filter is frusto-conical shaped.

1118.2.AM2